



MDARC #1 LARGE CLUB  
OF THE YEAR PACIFIC  
DIVISION ARRL 1982

# the CARRIER.....

Published Monthly by the Mount Diablo Amateur Radio Club

MDARC FIELD DAY CALL W6CX 2M REPEATER W6CX/R 220 REPEATER W6CX/R MEMORIAL CALL SIGN W6LGW  
Volume XXXI September 1983 Issue No. 9

## CLUB CALENDAR

- Sept. 16 - General Meeting  
Sept. 16-18 - Walnut Festival Booth  
Article inside  
Sept. 18 - Foot Race  
Sept. 18 - Walnut Festival Parade  
Sept. 19 - Board Meeting  
To be held at the Church  
Sept. 25 - Devil Mtn. Cyclists Race  
Oct. 1 - Melones Dam Tour  
Article inside  
Oct. 1 - "Battle of the Bands"

## Meeting Notice

This month's meeting will be held at  
the Grace Presbyterian Church  
2100 Tice Valley Blvd.,  
Walnut Creek

The speaker for the September meeting  
will be Jettie Hill W6RFF, Vice-Director  
of Pacific Division ARRL.  
Promises to be an exciting evening.

## Nets

"Ya all check in now ya hear!"  
Tech Forum/Swap NET  
Thursdays 7:30 P.M. 147.66/06  
Emergency NET is 146.43 Simplex 7:P.M.  
then QSY to 7.735 after roll call Thurs.  
Parky NET  
Every Night 3895 +/- QRM 10 P.M.  
NTS/NCN 3630 KHZ 7 PM daily  
slow speed session 8:30 P.M..  
NCN/VHF 145.41 MHZ, WA6EUZ/R  
CCRA NET Mon. 7:35 P.M. 147.735



SCHOOL IS OPEN

MOBILE CAREFULLY

MDARC Board meeting for the month of Sept.  
will be at the Grace Presbyterian Church  
2100 Tice Valley Blvd., Walnut Creek.

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Executive Asst: Florence Lortsher Printer: Doug Lortsher, W6KLM

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EMERGENCY COORDINATOR..	KA6IVF	Jim House	1919 Ygnacio Valley Rd #49	WC94598 939-8965
BOARD MEMBER.....	KT6X	Dick Brown	4125 Sacramento St., Concord	94521 676-9048
BOARD MEMBER.....	N6EEQ	Don Bertrand	3515 Honeysuckle Way, Concord	94518 685-3551

DEADLINE FOR THE NEXT ISSUE: Articles, Classified Ads, etc. by September 28 1983

Next Board Meeting at: Grace Presbyterian Church, Walnut Creek September 19, 1983

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## MDARC Board Meeting

Minutes of the MDARC Board meeting of August, 22, 1983.

Board members present: Joe, KA6EBF; Don, N6EEQ; Larry, W6CPO; Jim, KA6IVF; Don, W6NKF; John, WA6SWO.

The meeting was called to order at 8:04 by Joe, KA6EBF, Vice-President.

MMSP to accept the minutes of the last meeting as printed in the CARRIER.

Treasurers report: We are in good shape financially.

Fall classes were discussed: Dee, N6EJU, is arranging the room, start date will be September 23, again at College Park High. A discussion of fees led to a motion by Don, N6EEQ, to abolish all charges to students. Seconded by Joe, KA6EBF. Motion passed.

Discussion of a suggestion to assign a board member the membership chairman job. It was generally felt this was not necessary nor appropriate.

Mike, WB6FBI and Don, W6NKF, discussed the Space Shuttle Satellite project at the Wards parking lot. MMSP to make this a Club function:

Joe, WA6DQN, talked about public service and associated problems getting enough operators.

Jim, KA6IVF, talked about the County SET on 23 September. This will be staged by the same consultant who did the Pleasant Hill SET. Hours 0800-1200.

Submitted by  
Larry, W6CPO



## The President's Corner....

Having been gone for the month of August on vacation and we had a great time. We took time to attend the Pacific Division ARRL convention in Reno and I heard stated by a number of speakers the words "Public Service" in amateur radio.

Well, that is the subject of this message. We are into September and have many events to help with. Please volunteer for as many as you can. If every member would just help at one event the coverage would be excellent. To quote from one speaker at the convention, "public service is the backbone of Amateur radio and our public service help will be the greatest help we can give to Amateur radio". Our Club has again this month received letters of commendation for public service efforts by members.

If you look at the Club calendar for the month of September you will see there is, "something for everyone" in events.

Please call Joe Gregory and volunteer to help with any or all of the events. Don Simon and Larry Kay are going to need a number of people to help at the Walnut Festival Booth. This will include operators for the Club station and people to provide information to the visitors. You won't want to miss seeing the exhibit yourself so please turn out.

73's Bob KA6LSL

## Guest Speaker

The speaker for the September meeting will be Jettie Hill W6RFF, Vice-Director of Pacific Division ARRL. His talk will include the latest ARRL and actions and he will be open to questions from the members.

Also Mr. Hill is a candidate for the position of Director of the Pacific Division of the ARRL, so please you members who are always wondering out loud why this or that isn't being done, come to the meeting and ask questions.

Any and all members are welcome to have dinner with Jettie Hil W6RFF and myself at Emil Villa's, 1495 South Main St. Walnut Creek at 6:30 P.M. on September 16, 1983.

Joe Simpson, KA6EBF

THE ARRL ONCE AGAIN will seek to overturn the 10 meter linear amplifier ban. After learning that FCC General Docket 83-114 presented an opportunity to again make a case that the ban on 10 meter external amplifiers is an example of unnecessary regulation, the League's Executive Committee voted to direct its legal counsel Chris Imlay, N3AKD, to file comments reiterating the ARRL's continuing opposition to the moratorium.

The ban was enacted several years ago during the heyday of illegal CB high power operations as a method of curbing such illegal activities. The effect was negligible on solving the problem, with general public disenchantment with CB becoming the end result. With CB a dying entity, most Amateurs see no need to continue the amplifier prohibition.



# WALNUT FESTIVAL

W6CX to be Featured at 46th Annual  
Walnut Festival

The Mount Diablo ARC will but on an amateur radio demonstration station together with a free nationwide message radiogram service via the ARRL National Traffic System September 15 through Sept. 18. We will also operate as a special event station Sat. and Sun. on 15M, 20M, and 40M SSB from 2100Z to 2300Z near the top of the band and special commemorative QSL cards will be sent if SASE's are provided. (See Sept QST)

The public service committee will provide parade and marathon communications during the weekend days as well. This is the largest independent parade outside of the Rose Parade in the State, and the fair expects to draw approximately 50,000 people. This is a great chance for us to demonstrate amateur radio to the public, and answer questions, turn on youngsters and new members, create positive publicity for our hobby, distribute literature as to our many public services, and to provide message service via the NTS.

Special demonstrations of amateur TV, radio teletype, computers in amateur radio, and amateur satellite communications will be featured at specific times on Saturday and Sunday. The weather promises to be great for this last summer activity of the Club and we hope to see much of the Club out there to lend a hand. We have been given a 10 X 10' booth with 3 sides and a roof and a power cord the rest is up to us.

We need the following:

Sturdy Tables, Chairs, display easels, poster boards, table cloths, exhibit decorations, rigs, antennas, accessories, etc.

Especially we need your help in the following: Set up (Wednesday, Sept. 14 and Thursday, Sept. 15), take down (Sept. 19 Mon.), sign makers, Hosts/hostesses, operators, message handlers, etc. No special skill is required except being a ham and eagerness to do something for your hobby and Club. The Fair Schedule is Sept. 15 Thurs: 5-10PM 16 Fri. 3-Midnight 17 Sat: noon-midnite 18 Sun noon-10Pm

In order to schedule please contact us at least one week in advance (immediately) for any assistance you can contribute in this Club event. May we all be saved by the terror of the Woulf Hong.

Don, NI6A 237-1381 or Larry, W6CPO 933-6357

## MDARC

### General Meeting

August 19, 1983

The August meeting was called to order by Joe Simpson, KA6EBF, Vice President at 8:04.

Guests and upgrades were presented.

MMSP to accept the minutes of the last meeting as printed in THE CARRIER.

Treasurers report: \$1700 in the checking account and about \$1300 in the savings account. Due primarily to the lower than budgeted CARRIER expenses we are well within our operating budget.

Hank, W6ZHY, reported on the upcoming County-wide simulated emergency test on Sept. 23.

Don, N6EEQ, reported on the demonstration at the V.A. Hospital.

Joe, WA6DQN, reported on upcoming public service events and circulated sign-up sheets.

Dick, KT6X, reported on the move of the 2M W6CX machine due to an interference problem (not our fault).

Lauren, WB6CIE, reported on recent FCC actions against local jammers.

Larry, W6CPO, reported that all preparations for the Walnut Festival are on schedule. We still need more volunteers to man the booth. MMSP to spend up to \$150 for a new Club banner.

Guy, KE6BS, reported on fall classes.

Following the customary break, Ken Keeler, N6RO, gave an excellent talk on the operation and use of modern spectrum analyzers. Questions and some 'hands on' operation followed the talk. Joe presented Ken with a certificate of appreciation.

The meeting was adjourned following the prize drawings.

Submitted by  
Larry, W6CPO

SILENT KEY

Robert Oliver  
W6SPF

## Westlink Report

TWO NEW THREATS may be on the horizon for the 220 MHz band and the spectrum near it. The first is a petition, RM 4560, filed by the Waterways Communications System, Incorporated. It asks for quick action to implement throughout the United States a "Primary Maritime Mobile Radio Service" in the 216-220 MHz band. Their rule making request asks amendment of Parts 2.81 and 2.83 of the rules so that this can be accomplished. Even more ominous is a statement made by newly appointed FCC Private Radio Bureau Chief Robert Foosaner. When asked by the Washington based newsletter Industrial Communications if the FCC might consider implementing amplitude modulated SSB for land mobile use near 220, he said that they would take a serious look.

W9JUV

THE STS-9/SPACELAB MISSION, carrying Dr. Owen Garriott, W5LFL, and a two meter FM station, has been delayed for 1 month. In announcing the 30 day slip in schedule, NASA stated that the delay was caused by continuing problems with the Telemetry Data Relay Satellite (TDRS) launched from the orbiter Challenger on the STS-6 mission a few months ago. Shortly after being deployed, the kick motor on the TDRS malfunctioned, leaving the satellite in an improper orbit. For several weeks, NASA scientists and engineers have been trying to boost the bird into a geostationary orbit by firing the satellite's station-keeping thrusters for several minutes per day. The TDRS is needed to relay the voluminous amounts of data expected to be transmitted to earth from Spacelab. NASA has rescheduled the start of the STS-9 mission for the end of October, with the 30th expected to be the most likely launch date. The delay will have no other effect on the Amateur Radio aspect of the mission.

THE FCC IS SEEKING comments to assist in finding what, if any, minimum regulatory requirements are necessary to minimize the interference potential of radio frequency lighting devices.

They have issued Notice of Inquiry 83-360 on the subject and have invited both industry and the public to comment in the matter. This topic may become crucial to Radio Amateurs because these devices could become yet another source of potentially serious interference to Amateur communication. (General Docket 83-806 Report 17621, July 28, 1983)

BALDUR DRONICA, DJ6SI, the leader of the ill-fated 1983 Spratley Island DXpedition, has written a letter to the Northern California Dx Foundation in which he tries to clear up several points regarding what transpired after the shelling of their boat by Vietnamese gunners on the island of Amboina Cay. Dronica first countered allegations made in the West German news magazine Der Spiegel that questioned the ability of the survival dinghy to float for nearly 250 miles against prevailing tides. He provided a copy of a letter from the Oceanic Weather Bureau that gave details of wind conditions occurring in the region while they were adrift. Official records dispel all questions raised by publications outside the Amateur Community, and 677 ships in the region reported similar wind and tide conditions. He also censured the rumor mongers in the DX community who claimed that the DXpedition had not been well prepared, detailing the precautions taken. He came down hard on the effect the misinformation had on search and rescue operations, indicating that Gero Band (DJ3NG) would have survived if the group had been found 1 day earlier. Their exact position was known when they were passing Amboina Cay.

DE WA6ITF

AMSAT OSCAR 10 MODE B is available for general use. The first of the 2 transponders on board A-0-10 was opened on August 6th at 1430 UTC. Mode B relays CW, SSB and other narrow band modes from 70 cm onto 2 meters. Its upper and lower uplink frequency limits are 435.038 and 435.162 MHz. The output frequencies are centered on 145.904 MHz with the frequencies inverted. This means that using the agreed standard of LSB up will give you USB down. AMSAT says to use no more than 750-1000 watts ERP when running sideband and even less for CW. A right hand circularly polarized antenna will give you the best results in both your transmitting and receiving positions. Complete details on the progress of A-0-10 next issue.

NOVICE CLASS POWER LEVELS are also changing (see WLR 398, July 29th). Effective August 29th, Novice operators will be permitted 200 watts power output rather than the current 250 watts input level as defined in the rules. In addition, the power level for operation in the 10 MHz band will remain at the 250 watt level unchanged, since operation there is by special waiver and is not governed directly by the Amateur rules.

Tnx W9JUV



## RACES/ARES

The MDARC has received information that the Contra Costa Office of Emergency Services will be involved in a Simulated Emergency Test (SET) on Friday, September 23, 1983. Please note the date on your calendar..... It could well be the most important event for our emergency group of the entire year!

While the details are a bit secretive at this time (for good reason), we may assume that the test will include all County Public Services as well as those of a number of our city groups. We do know that hospitals will not be directly involved (probably due to their recent SET and Accreditation Testing); however, our MDARC emergency assignees to the various hospitals might well expect to be called on to report to their assigned station, anyway.

Let's assume that the proposed simulated emergency will be a severe earthquake affecting most of the county! Are you ready? Most likely this will be in the morning (8 AM til Noon). How and when do you "check in"? What are the frequencies to be used? How do you offer your communication services? These questions and more

are answered in the Emergency Communication Operation Manual.

What! You don't have a copy? Why not? Better tune in on the Emergency Net. (Every Thursday, 7:00 PM - 146.43 MHz simplex or 7:20 PM - 147.735 WA6WVH repeater) You are welcome to ask questions of your EC, Jim House KA6IVF or the net controller.

Remember.....the Contra Costa County SET, September 23, Friday. The experience you gain may be invaluable to you and hundreds of people at some future time. Please join us if you can.

New subject.....Many operators have some doubts as to the proper way to interrupt an ongoing QSO or net operation. The more or less approved method is contained in the opening comments of a number of nets and are as follows: When you have a pertinent and useful comment to add to the conversation, wait till there is a pause by the transmitting station and, quickly, speak your call sign. If you have a priority item, say, "BREAK!" If you have an emergency or emergency traffic, say, "BREAK BREAK." Observance of this procedure will be helpful to all.

73 Hank W6ZHY

## THE BASE STATION

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### The Base Station

2101 Pacheco St. Concord, CA 94520

(415) 685-7388

### WATT IS ELECTRICITY?

from "Summerland ARC Newsletter" via "The Round Table" via "The Hilltopper" via "LERC"

Electricity is a colorless, odorless gas, which burns with a bright flame.

Light grows from a bulb.

An AMP is a little animal that crawls along a wire. An AMP lives in an OHM. In summer, an AMP lives in a COULOMB.

An AMMETER is an animal that eats AMPS.

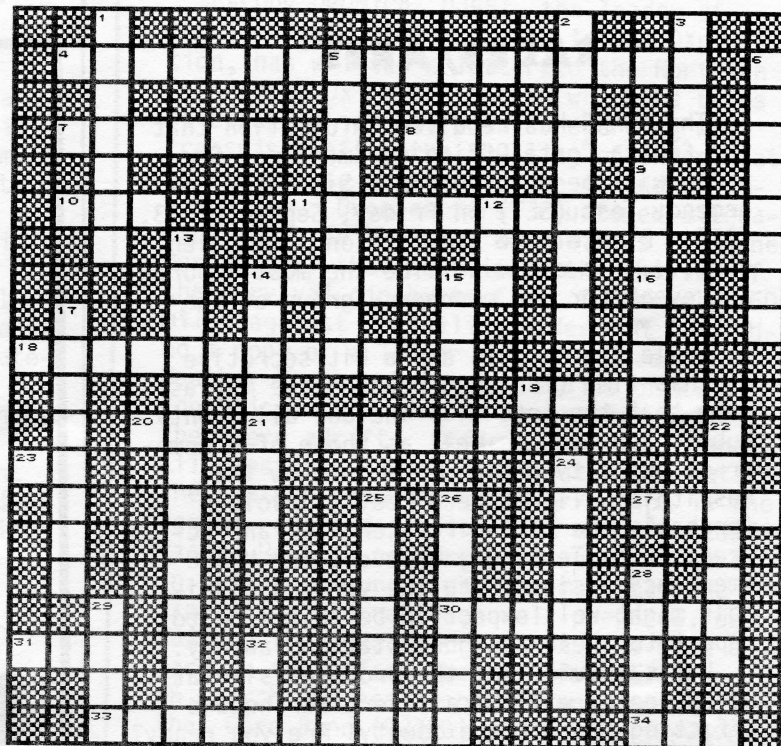
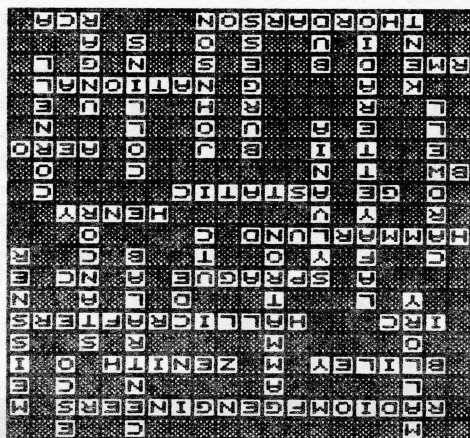
A BATTERY fires AMPS around a CIRCUIT. An AMP rides around the CIRCUIT on a MEGACYCLE. MEGACYCLES are parked on a GRID. Flemings Right Hand Rule states that all AMPS must ride their MEGACYCLES on the right hand side of the wire. A CHARGE occurs when all the AMPS run down the CIRCUIT at the same time. All AMPS meet an ACCUMULATOR.

An OERSTEAD is an OHMstead for oerses.

A JOULE is a fight between two AMPS. You receive a shock when an AMP isn't wearing any shoes.

Editor's Note: When WATT had read this, he invented the steam engine as a decent alternative....and was then prematurely retired to the old VOLTS OHM. (Ugh, ugh, boo, hiss, )

ANSWERS



ACROSS CLUES

4. MFG OF THE MODEL 45 & 99 RCVR. FOUNDED IN 1933. THEIR SLOGAN WAS "TIME WILL TELL" (THREE WORDS)
7. CRYSTAL MFR. FROM ERIE PA. ALSO INVENTED THE VARI-X VFO IN THE 1930'S
8. EXCLUSIVE CHOICE OF MACMILLAN FOR HIS NORTH POLE EXPEDITION. STILL IN BUSINESS. HINT: TRANSOCEANIC
10. RESISTOR COMPANY FROM PHILADELPHIA. FOUNDED AROUND 1927. (ABBREV)
11. INVENTOR OF THE SKY BUDDY, SKY TRAVELLER AND THE SUPER SKYRIDER. MADE HAM GEAR UNTIL THE SIXTIES.
14. MFR. STILL AROUND TODAY MADE RESISTORS AND CONDENSORS. HOME OFFICE WAS NORTH ADAMS, MASS.
16. MFR OF DIALS, CONDENSORS, CHOKES, COUPLINGS, COIL FORMS AND RCVR. THIS IS AN ABBR, AND THEIR LOGO.
18. THIS RECEIVER MFR WAS ESTABLISHED IN 1910, AND IS BEST KNOWN FOR ITS MODEL PREFIX "HQ".
19. THIS FAMILY OWNED RADIO DEALER STARTED IN BUTLER, MO. AND IS STILL GOING TODAY.
20. PATENTED THE "TUNGAR" BATTERY CHARGER IN 1924. TODAY THEY MAKE GOOD THINGS FOR LIVING (ABBREV).
21. THEY MADE MIKES THEN, AND THEY MAKE MIKES NOW. STARTED IN CONEAUT, OHIO.
23. MAKER OF AIR COILS, BAND SWITCHES AND LINK INDUCTORS IN ARDMORE PA. NOW IN BRISTOL, PA. (ABBREV)
27. MANUFACTURED "SUPER-SENSITIVE" INDUCTOR UNITS IN THE TWENTIES. IF YOU GET THIS ONE YOU'RE GOOD.
30. FAMOUS VERNIER DIAL, CONDENSOR & RECEIVER MFR FOUNDED IN 1914. KNOWN FOR MODEL PREFIX "NC".
31. ABBREVIATION FOR 4 ACROSS
33. THEIR SLOGAN READS "TRANSFORMER SPECIALISTS SINCE 1895" & 6 FLOORS & 100,000 SQ FT OF TRANSFORMERS.
34. THIS COMPANY MADE "RADIOTRONS" & THE "RADIOLA" SPEAKER (ABBREV)

DOWN CLUES

1. BACK THEN THEY MADE VIBRATORS, CONDENSORS, SWITCHES ETC. TODAY WE KNOW THEM BEST FOR BATTERIES.
2. KNOW AS CRL THEY HAVE BUILT VARIABLE RESISTORS FOR 70 YEARS.
3. THIS COMPANY SOLD SYNCHRONOUS MOTORS FOR THE FIRST EXPERIMENTAL TELEVISION RECEIVERS IN 1927.
5. HEINTZ & KAUFMAN CO IN SAN FRANCISCO STARTED MAKING THIS KIND OF TUBE IN 1933. (THIS IS A TUFFIE)
6. MADE AUDIO FILTERS, SIGNAL SHIFTERS, VFO'S & CONVERTERS. SLOGAN "THE STANDARD OF COMPARISON"
9. TRANSFORMER COMPANY ALSO MADE COMPLETE KITS. PROMOTED THE BOOK CALLED THE "HAMANUAL" IN 1935.
12. THIS COMPANY STARTED MAKING CONDENSORS IN 1910. MORE RECENTLY THEY MADE ROTATORS. (ABBREV)
13. RETAILER THAT STARTED IN 1920. HAD 7 STORES IN EASTERN US IN 40'S. BANKRUPTED 1980 (2 WORDS)
14. MAKER OF TUBES, CRT'S & ELECTRONIC DEVICES IN THE 40'S. TODAY THEY'RE EVEN BETTER THAN SONY!
15. THIS NYC COMPANY'S SLOGAN READ: "FOREMOST MANUFACTURERS OF TRANSFORMERS" (ABBREVIATION)
17. MANUFACTURED THE ORIGINAL LOW LOSS ROTOR GROUNDED CONDENSOR. HOME OFFICE WAS BROOKLYN.
22. FIRST WORD IN 12 DOWN
24. THIS COMPANY'S SLOGAN WAS: "LOOK TO -- FOR QUALITY LEADERSHIP IN RADIO COMMUNICATIONS" (HINT 75A1)
25. THE BATTERY COMPANY. THEIR SLOGAN WAS "ASK ANY RADIO ENGINEER"
26. "A FAMOUS NAME IN RADIO" IS THEIR SLOGAN. STILL OPERATING IN WASECA MINNESOTA
28. STILL MAKING SOLDERING TOOLS. THIS COMPANY STARTED DECADES AGO.
29. SECOND NAME OF A RADIO MFR BEGINNING WITH ATWATER.
32. MANUFACTURER OF ALL SORTS OF CABINETS IN THE 30'S



## ACTIVITIES

As promised our trip to tour Melones Dam will take place on Saturday, October 1, 1983. We will meet at the coffee shop at the Junction of Highway 99 and Highway 120 in Manteca at 9:30 am for coffee before we car caravan to the dam. Radio frequency which will be monitored is 146.52 Simplex. The tour will start at the dam at 12 noon sharp. We will arrive at the dam in plenty of time to have a quick picnic (tailgate) lunch before tour starts. The tour takes 2½ to 3 hours. It is a walking tour. Elevators are available for those unable to navigate stairs.

For those who want to make a weekend of it, the Sonora Towne House Motel is recommended as a nice place to stay. For reservations phone the motel (209)532-3633. There are many good restaurants in Sonora area for fine dining Saturday evening.

To cap off the weekend, plan on a trip to Columbia State Park on Sunday before heading for home.

Directions to reach the dam:

Take Highway 120 from Manteca. About 25 miles east of Oakdale, turn left on O'BRYNES FERRY ROAD. (Just before left turn, take first road to right and follow road to Dam Office.

Please call me for further questions. Also call if you plan on going as I need to have an idea of approximately how many will be there.

Carolyn KA6LSK  
846-9458

## Deadline Announcement

For your convenience, CARRIER article deadlines through Dec. 1983 are the following: (flexible)

September 28

November 25  
December 28

## Ham Radio Outlet

2811 Telegraph Ave.  
Oakland, CA 94609

(415) 451-5757

999 Howard Ave.  
Burlingame, CA 94010

(415) 342-5757

Hours: 10 AM to 5:30 PM Monday—Saturday

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Affiliated with the American Red Cross

From:  
Mt. Diablo Amateur Radio Club, Inc.  
P.O. Box 23222  
Pleasant Hill, Calif. 94523

## MDARC PICNIC

A heartfelt thanks to Joe, KA6EBF and  
YL Verna for sharing their home and big  
back back yard at the MDARC Picnic

## FREE HAM CLASSES

Mount Diablo Amateur Radio Club  
is offering Ham classes again this  
year. There will be no charge for  
these. They are FREE!! Starting  
Tuesday September 20th; 7 P.M..

Sign up will be then.  
Take advantage of this opportunity  
to get some more smarts and upgrade.

College Park High School  
201 Viking Drive Pleasant Hill, Calif.

Across from Diablo Valley College